FIGURE 1
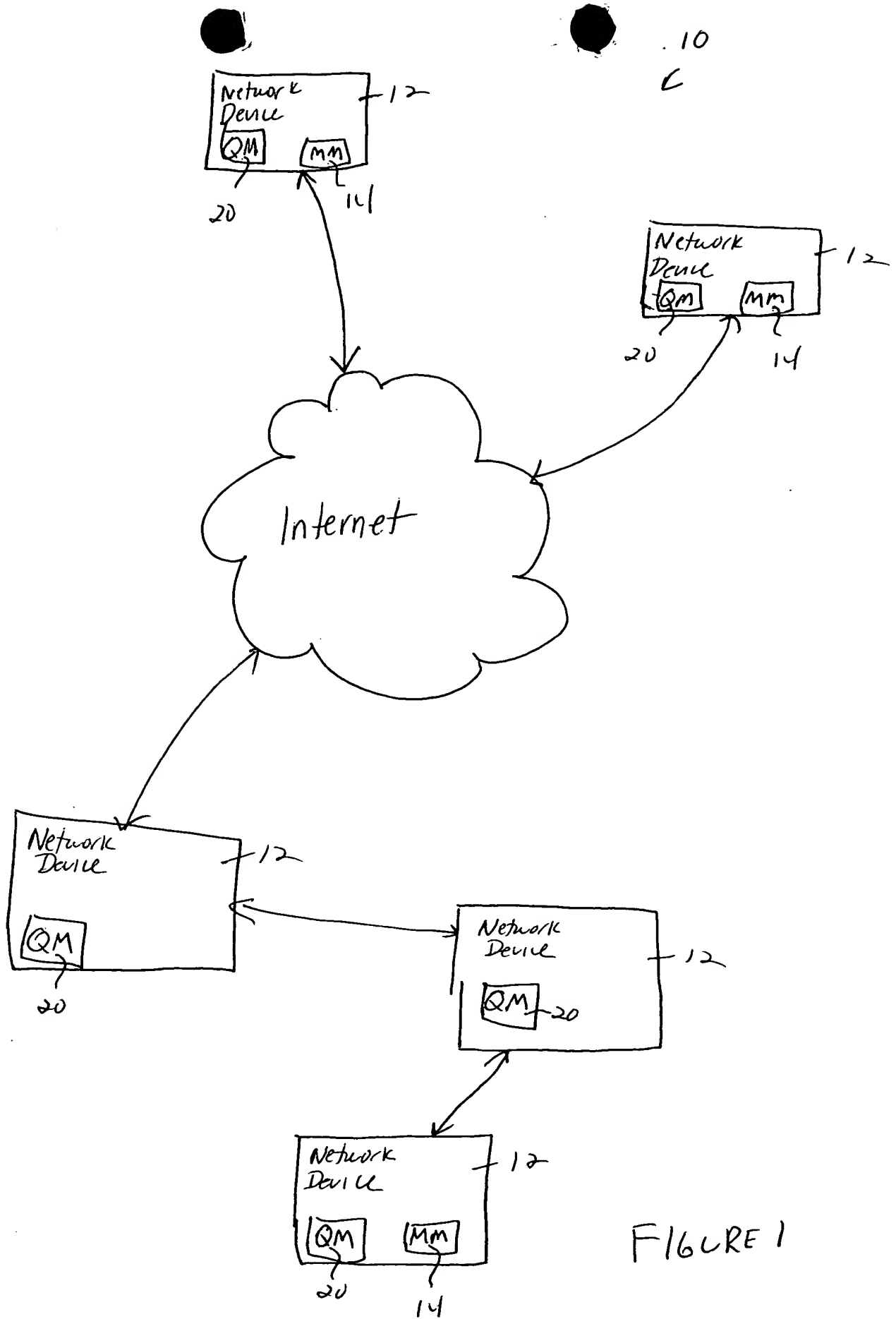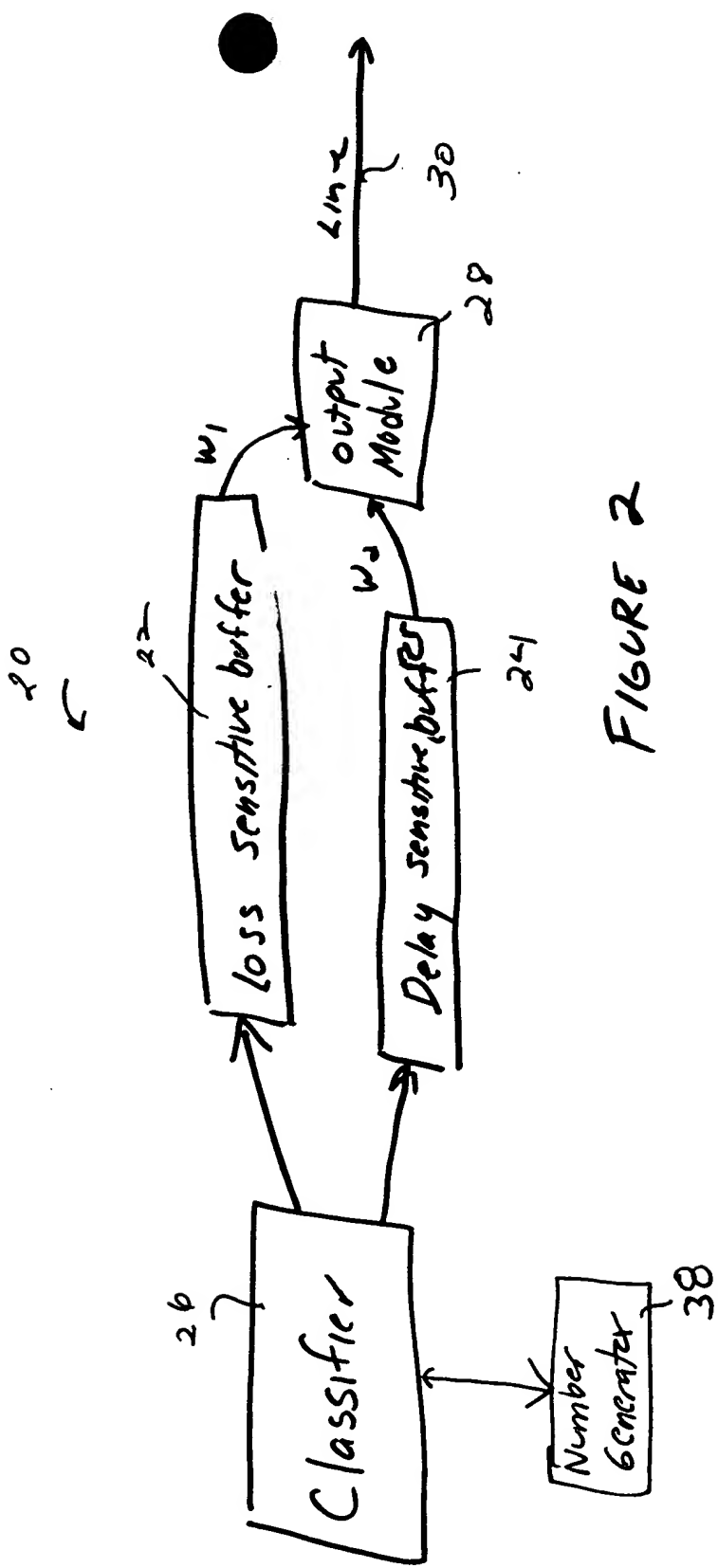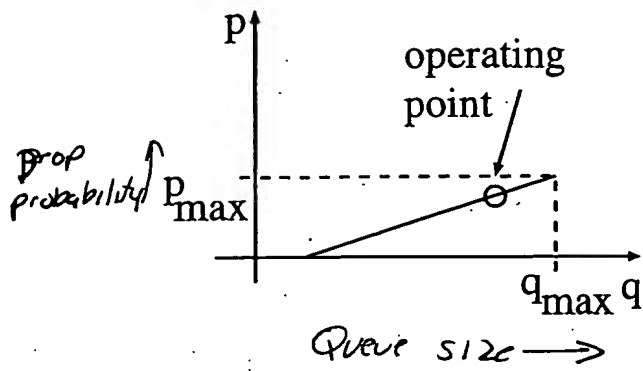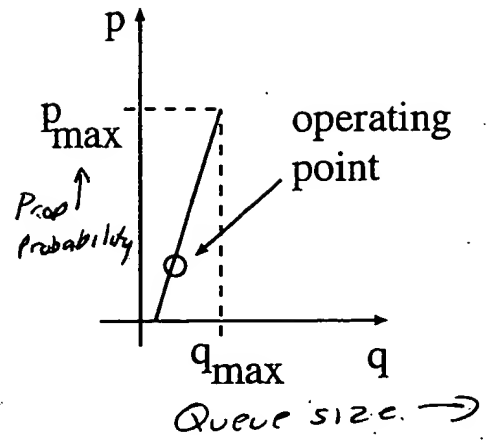
FIGURE 2

Loss Sensitive Queue

FIGURE 3A

Delay Sensitive Queue

FIGURE 3B

FIGURE 4
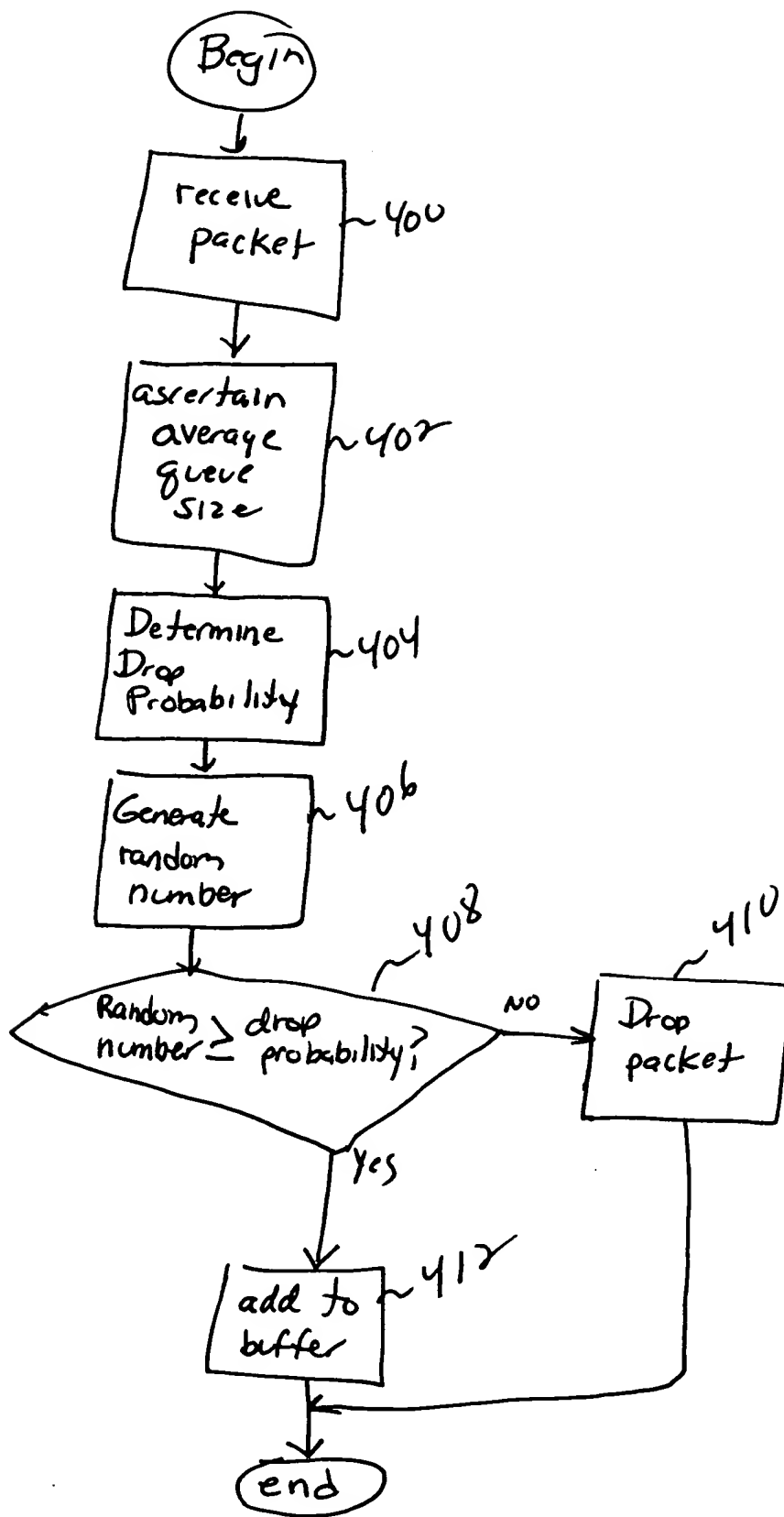
Begin

Set weights — 500

$\dfrac{P_1}{P_{1max}} = \dfrac{P_2}{P_{2max}}?$ — 502   Yes

NO

$\dfrac{P_1}{P_{1max}} > \dfrac{P_2}{P_{2max}}?$ — 504   NO

Increase W2 and Decrease W1 — 506

Yes

Increase W1 and Decrease W2 — 508

Wait preselected Time — 510

FIGURE 5

Begin

receive packet ~600

ascertain average queue size ~602

determine drop probability ~604

multiply drop probability by constant to produce comparitor ~606

Generate random number ~608

random number ≥ comparitor? ~610

No → drop packet ~612

Yes

add to queue ~614

end

FIGURE 6